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DEPARTMENT OF THE ARMY JUSTIFICATION OF ESTIMATES FOR
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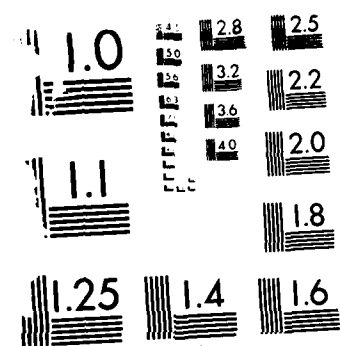
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DEPARTMENT OF THE ARMY
JUSTIFICATION OF ESTIMATES FOR FISCAL YEAR 1987
SUBMITTED TO CONGRESS

FEBRUARY 1986



AMMUNITION

PROCUREMENT

PROGRAMS

AIRCRAFT	MISSILES
WEAPONS & TRACKED COMBAT VEHICLES	
AMMUNITION	OTHER

Information has been reviewed
and found to be correct and
is being submitted.

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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
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17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
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19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Army Procurement Programs Budget Justification Books covering Aircraft, Missiles, Weapons and Tracked Combat Vehicles, Ammunition, Other Procurement, Army Appropriations programs and Construction programs submitted by the Army to Congress February 1986 for Fiscal Year 1987.		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) In justification of programs requested, this document, in separate volume for each of the five Procurement Appropriations, and one separate volume for Construction Programs, provides backup data for the Army Budget submission for FY 1987. Included are Summaries of Requirements, Program and Financing Statements and Selected Data Sheets. (These volumes are unclassified).		

DEPARTMENT OF THE ARMY

PROCUREMENT OF AMMUNITION, ARMY

JUSTIFICATION OF ESTIMATES FOR FISCAL YEARS 1987, 1988

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PROCUREMENT OF AMMUNITION, ARMY

Section 1:

Budget Appendix Extract

Language

Program and Financing Schedule

Object Classification Schedule

Procurement of Ammunition, Army

APPROPRIATION LANGUAGE

For construction, procurement, production, and modification of ammunition, and accessories therefor; specialized equipment and training devices; expansion of public and private plants, including ammunition facilities authorized in military construction authorization acts or authorized by section 2673, title 10, United States Code, and the land necessary therefor, without regard to section 4774, title 10, United States Code, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title as required by section 355, Revised Statutes, as amended; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes; (\$2,497,200,000) \$2,254,000,000 to remain available for obligation until September 30, (1988) 1989. (1) (2)

(10 U.S.C. 2353, 2361, 3012, 4531, 4532; Department of Defense Appropriation Act, 1985 additional authorizing legislation to be proposed.)

EXPLANATION OF LANGUAGE CHANGES

(1) To change the amount of the appropriation requested for FY 1987.

(2) To change the obligation expiration date for the FY 1987 program.

Procurement of Ammunition, Army Program and Financing (in Thousands of dollars) FISCAL YEAR 1983					04 Feb 86	
Identification code	21-2034-0-1-051	Budget Plan (amounts for PROCUREMENT actions programmed)		Obligations		
		1985 actual	1986 est.	1987 est.	1985 actual	1986 est.
Program by activities:						
Direct program:						
00.0101	Ammunition				98,222	
00.0201	Ammunition production base support				23,637	
00.9101	Total direct program				121,859	
01.0101	Reimbursable program				62	
10.0001	Total				121,921	
Financing:						
Offsetting collections from:						
11.0001	Federal funds(-)				23,715	
13.0001	Trust funds(-)				265	
14.0001	Non-Federal sources(-)				-2	
17.0001	Recovery of prior year obligations				-74,894	
21.4002	Unobligated balance available, start of year:				-91,865	
21.4007	For completion of prior year budget plans					
22.4001	Reprogramming from/to prior year budget plan					
25.0001	Unobligated balance transferred to other acc				10,000	
	Unobligated balance lapsing				10,860	
39.0001	Budget authority					

Procurement of Ammunition, Army
Program and Financing (in Thousands of dollars) FISCAL YEAR 1984 04 Feb 86

Identification code	21-2034-0-1-051	Budget Plan (amounts for PROCUREMENT actions programmed)			Obligations		
		1985 actual	1986 est.	1987 est.	1985 actual	1986 est.	1987 est.
Program by activities:							
Direct program:							
00.0101	Ammunition				134,861	18,696	
00.0201	Ammunition production base support				47,844	47,759	
00.9101	Total direct program				182,705	66,455	
01.0101	Reimbursable program				28,198	703	
10.0001	Total				210,903	67,158	
Financing:							
Offsetting collections from:							
11.0001	Federal funds(-)				10,557		
13.0001	Trust funds(-)				3,026	5,290	
14.0001	Non-Federal sources(-)				-37		
17.0001	Recovery of prior year obligations				-68,616		
	Unobligated balance available, start of year:						
21.4002	For completion of prior year budget plans				-258,681	-72,448	
21.4003	Available to finance new budget plans					-30,400	
21.4007	Reprogramming from/to prior year budget plans						
22.4001	Unobligated balance transferred to other acc					30,400	30,400
	Unobligated balance available, end of year:						
24.4002	For completion of prior year budget plans						
24.4003	Available to finance subsequent year budget						
	Budget authority						

Procurement of Ammunition, Army Program and Financing (in Thousands of dollars) FISCAL YEAR 1985							04 Feb 86
Identification code	21-2034-0-1-051	Budget Plan (amounts for PROCUREMENT actions programmed)			Obligations		
		1985 actual	1986 est.	1987 est.	1985 actual	1986 est.	1987 est.
Program by activities:							
Direct program:							
00.0101	Ammunition	2,198,344			2,103,244	85,702	9,398
00.0201	Ammunition production base support	301,569			207,101	91,809	3,059
00.9101	Total direct program	2,500,313			2,310,345	177,511	12,457
01.0101	Reimbursable program	78,354			71,233	7,121	
10.0001	Total	2,578,667			2,381,578	184,632	12,457
Financing:							
Offsetting collections from:							
11.0001	Federal funds(-)	-39,401			-39,401		
13.0001	Trust funds(-)	-40,835	356		-40,835	356	
14.0001	Non-Federal sources(-)	-187			-187		
21.4002	Unobligated balance available, start of year:						
21.4003	For completion of prior year budget plans						
21.4007	Available to finance new budget plans						
22.4001	Reprogramming from/to prior year budget plan	356					
22.4001	Unobligated balance transferred to other acc						
24.4002	Unobligated balance available, end of year:						
24.4003	For completion of prior year budget plans						
24.4003	Available to finance subsequent year budget	147,700	-147,700		197,445	12,457	
40.0001	Budget authority (Appropriation)	2,646,300			147,700		
					2,646,300		

Procurement of Ammunition, Army Program and Financing (in Thousands of dollars) FISCAL YEAR 1986					04 Feb 86	
Identification code	21-2034-0-1 051	Budget Plan (amounts for PROCUREMENT actions programmed)		Obligations		
		1985 actual	1986 est.	1987 est.	1985 actual	1986 est.
Program by activities:						
Direct program:						
00.0101	Ammunition		1,995,700		1,812,445	165,330
00.0201	Ammunition production base support		501,500		365,075	21,150
00.9101	Total direct program		2,497,200		2,177,520	186,480
01.0101	Reimbursable program		166,800		166,800	
10.0001	Total		2,664,000		2,344,320	186,480
Financing:						
Offsetting collections from:						
11.0001	Federal funds(-)		-99,100		-99,100	
13.0001	Trust funds(-)		-67,700		-67,700	
21.4002	Unobligated balance available, start of year:					-319,680
	For completion of prior year budget plans					
24.4002	Unobligated balance available, end of year:					133,200
	For completion of prior year budget plans					
40.0001	Budget authority (Appropriation)		2,497,200		319,680	133,200
					2,497,200	

Procurement of Ammunition, Army
Program and Financing (in Thousands of dollars) FISCAL YEAR 1987 04 Feb 86

Identification code	21-2034-0-1-051	Budget Plan (amounts for PROCUREMENT actions programmed)			Obligations	
		1985 actual	1986 est.	1987 est.	1985 actual	1986 est. 1987 est.
Program by activities:						
Direct program:						
00.0101	Ammunition			1,900,100		1,680,022
00.0201	Ammunition production base support			353,900		282,282
00.9101	Total direct program			2,254,000		1,962,304
01.0101	Reimbursable program			176,800		176,800
10.0001	Total			2,430,800		2,139,104
Financing:						
Offsetting collections from:						
11.0001	Federal funds(-)			-103,900		-103,900
13.0001	Trust funds(-)			-72,900		-72,900
24.4002	Unobligated balance available, end of year: For completion of prior year budget plans					291,696
40.0001	Budget authority (Appropriation)			2,254,000		2,254,000

Procurement of Ammunition, Army
Program and Financing (in Thousands of dollars) SUMMARY

04 Feb 86

Identification code	21-2034-0-1-051	Budget Plan (amounts for PROCUREMENT actions programmed)				Obligations		
		1985 actual	1986 est.	1987 est.	1985 actual	1986 est.	1987 est.	
Program by activities:								
Direct program:								
00.0101	Ammunition	2,198,344	1,995,700	1,900,100	2,336,327	1,916,843	1,854,750	
00.0201	Ammunition production base support	301,969	501,500	353,900	278,582	504,643	306,491	
00.9101	Total direct program	2,500,313	2,497,200	2,254,000	2,614,909	2,421,486	2,161,241	
01.0101	Reimbursable program	78 354	166,800	176,800	99,493	174,624	176,800	
10.0001	Total	2,578,667	2,664,000	2,430,800	2,714,402	2,596,110	2,338,041	
Financing:								
Offsetting collections from:								
11.0001	Federal funds(-)	-39,401	-99,100	-103,900	-5,129	-99,100	-103,900	
13.0001	Trust funds(-)	-40,835	-67,344	-72,900	-37,544	-62,054	-72,900	
14.0001	Non Federal sources(-)	-187			-226			
17.0001	Recovery of prior year obligations				-143,510			
21.4002	Unobligated balance available, start of year:				-350,546	-269,893	-332,137	
21.4003	For completion of prior year budget plans					-178,100		
21.4007	Available to finance new budget plans							
21.4007	Reprogramming from/to prior year budget plan	-50,904	-356					
22.4001	Unobligated balance transferred to other acc	10,000	178,100		10,000	178,100		
24.4002	Unobligated balance available, end of year:							
24.4003	For completion of prior year budget plans				269,893	332,137	424,896	
24.4003	Available to finance subsequent year budget	178,100			178,100			
25.0001	Unobligated balance lapsing	10,860			10,860			
40.0001	Budget authority (Appropriation)	2,646,300	2,497,200	2,254,000	2,646,300	2,497,200	2,254,000	
Relation of obligations to outlays:								
71.0001	Obligations incurred, net							
72.4001	Obligated balance, start of year				2,671,503	2,434,956	2,161,241	
74.4001	Obligated balance, end of year				2,603,135	3,083,586	3,239,700	
77.0001	Adjustments in expired accounts				-3,083,586	-3,239,700	-3,337,969	
78.0001	Adjustments in unexpired accounts				31,979			
					-143,510			
90.0001	Outlays				2,079,522	2,278,842	2,062,972	

4-8 February 1986

Procurement of Ammunition, Army		04 Feb 86	
Object Classification (in Thousands of dollars) SUMMARY			
Identification code	21-2034-0-1-051	1985 actual	1986 est. 1987 est.
Direct obligations:			
Other services:			
125.004		156,895	148,441
126.001	Supplies and materials	2,458,014	2,273,045
199.001	Total Direct obligations	2,614,909	2,421,486
Reimbursable obligations:			
Other services:			
225.004		5,970	30,670
226.001	Supplies and materials	93,523	143,954
299.001	Total Reimbursable obligations	99,493	174,624
999.901	Total obligations	2,714,402	2,596,110
			2,338,041

Procurement of Ammunition, Army
(Reduction Pursuant to Public Law 99-177)
Program and Financing (in Thousands of dollars) FISCAL YEAR 1984

04 Feb 86

Identification code	Budget Plan (amounts for PROCUREMENT actions programmed)		Obligations	
	1985 actual	1986 est.	1987 est.	1985 actual 1986 est. 1987 est.
21-2034-6-1-051				
Program by activities:				
10.0001 Total				-3,259
Financing:				
Unobligated balance available, start of year:				
21.4007 Reprogramming from/to prior year budget plan		-3,259		
23.4001 Unobligated balance reduction: Appropriation		3,259		
39.0001 Budget authority				3,259

4-10 February 1986

Procurement of Ammunition, Army
(Reduction Pursuant to Public Law 99-177)
Program and Financing (in Thousands of dollars) FISCAL YEAR 1985

04 Feb 86

Identification code	21-2034-6-1-051	Budget Plan (amounts for PROCUREMENT actions programmed)			Obligations	
		1985 actual	1986 est.	1987 est.	1985 actual	1986 est. 1987 est.
Program by activities:						
Direct program:						
00.0101	Ammunition	-9,306			-8,701	-605
00.2001	Undistributed					
10.0001	Total	-9,306			-8,701	-605
Financing:						
Unobligated balance available, start of year:						
21.4002	For completion of prior year budget plans					
21.4007	Reprogramming from/to prior year budget plans	9,306	-9,306			605
23.4001	Unobligated balance reduction: Appropriation		9,306		9,306	
Unobligated balance available, end of year:						
24.4002	For completion of prior year budget plans				-605	
39.0001	Budget authority					

4-11 February 1986

Procurement of Ammunition, Army
(Reduction Pursuant to Public Law 99-177)
Program and Financing (in Thousands of dollars) FISCAL YEAR 1986

04 Feb 86

Identification code	21-2034-6-1-051	Budget Plan (amounts for PROCUREMENT actions programmed)			Obligations	
		1985 actual	1986 est.	1987 est.	1985 actual	1986 est. 1987 est.
Program by activities:						
Direct program:						
00.0101	Ammunition		-122,363		-107,679	-8,565
00.2001	Undistributed					
10.0001	Total		-122,363		-107,679	-8,565
Financing:						
Unobligated balance available, start of year:						
21.4002	For completion of prior year budget plans					14,684
Unobligated balance available, end of year:						
24.4002	For completion of prior year budget plans				-14,684	-6,119
40.0001	Budget authority (Appropriation)		-122,363		-122,363	

4-12 February 1986

Procurement of Ammunition, Army
(Reduction Pursuant to Public Law 99-177)
Program and Financing (in Thousands of dollars) SUMMARY

04 Feb 86

Identification code	21-2034-6-1-051	Budget Plan (amounts for PROCUREMENT actions programmed)			Obligations	
		1985 actual	1986 est.	1987 est.	1985 actual	1986 est. 1987 est.
Program by activities:						
Direct program:						
Ammunition						
00.0101		-9,306	-122,363		-119,639	-9,170
00.2001						
10.0001		-9,306	-122,363		-119,639	-9,170
Total						
Financing:						
Unobligated balance available, start of year:						
21.4002						
For completion of prior year budget plans						
21.4007		9,306	-12,565			15,289
23.4001			12,565		12,565	
Unobligated balance reduction: Appropriation						
Unobligated balance available, end of year:						
24.4002					-15,289	-6,119
For completion of prior year budget plans						
40.0001			-122,363		-122,363	
Budget authority (Appropriation)						
Relation of obligations to outlays:						
Obligations incurred, net						
71.0001					-119,639	-9,170
72.4001					-83,197	-83,197
74.4001					83,197	41,095
Obligated balance, end of year						
90.0001					-36,442	-51,272
Outlays						

Procurement of Ammunition, Army
 (Reduction Pursuant to Public Law 99-177)
 Object Classification (in thousands of dollars) SUMMARY

04 Feb 86

Identification code	21-2034-6-1-051	1985 actual	1986 est.	1987 est.
Direct obligations:				
192.001	Undistributed		-119,639	-9,170
199.001	Total Direct obligations		-119,639	-9,170
999.901	Total obligations		-119,639	-9,170

4-14 February 1986

PROCUREMENT OF AMMUNITION, ARMY

Section 2:

Budget Activity Justification

Activity 1 - Ammunition

Activity 2 - Ammunition Production Base Support

Department of the Army Annual Budget Estimate JUSTIFICATION	Appropriation PROCUREMENT OF AMMUNITION, ARMY		FY 1987	
			Budget	
	(Thousands of Dollars)			
Budget Program	Actual	Estimate	Estimate	Estimate
Activity 1 - Ammunition	FY 1985	FY 1986	FY 1987	FY 1988
Direct Budget Plan	\$2,198,331	\$1,995,700	\$1,900,100	\$2,087,400

Part 1 - PURPOSE AND SCOPE

The FY 1987 request provides for worldwide training consumption, improvements in near-term readiness and combat sustainability, and the acquisition of war reserve stocks for use during wartime. Families of ammunition included in the request are artillery, mortar, tank, small arms, propelling charges, and other ammunition items. The major portion of the funds being requested are identified to recently developed tank rounds, artillery ammunition, and small arm ammunition.

Part 2 - JUSTIFICATION OF FUNDS REQUESTED

The fiscal year 1987 program provides for worldwide training consumption and losses to inventory through the FY 1987 funded delivery period, increases U.S. Army readiness in support of the FY 1991 authorized acquisition objective and maintains an active ammunition-production base in FY 1987 for modernization and training-type ammunition. The FY 1987 program includes over 100 different types of ammunition including \$35.3 million for tank ammunition, \$478.5 million for artillery ammunition, \$117.6 million for propelling charges, \$32.7 million for small arms ammunition, \$195.1 million for mortar ammunition, and \$423.9 million for other ammunition, spares, and components for tests and renovation. The fiscal year 1988 program included \$500.7 million for tank ammunition, \$535.3 million for artillery ammunition, \$90.6 million for propelling charges, \$477.2 million for small arms ammunition, \$103.0 million for mortar ammunition, and \$400.6 million for other ammunition, spares, and components for tests and renovation. A category breakout of the FY 1987 program is as follows:

ITEM BREAKOUT, FY 1987

<u>TYPE</u>	<u>\$ (Millions)</u>	<u>REMARKS</u>
<u>Small Arms Ammunition (\$352.7 Million)</u>		
Cal .22 Cartridge	.7*	The requested procurement supports training requirements. The FY 1987 request is for 23,672,000 caliber .22 ball cartridges.
5.56mm Cartridge	83.6	The FY 1987 budget request includes funding for 5.56mm Ball, Tracer, and Blank ammunition for the M-16 rifle and Squad Automatic Weapon (SAW) in support of both war reserve and training requirements. The FY 1987 request is for 411,775,000 rounds of various types of 5.56mm cartridges.
7.62mm Cartridge	87.6	The FY 1987 budget request includes Ball, Tracer and Match ammunition for war reserves and training requirements. The FY 1987 request is for 359,882,000 rounds of various types of 7.62mm cartridges.
Cal .38 Cartridge	.6**	The FY 1987 request for 5,973,000 cartridges supports both war reserve and training requirements.
Cal .40 Cartridge	.7	This FY 1987 request supports war reserve and training requirements with the procurement of 5,936,000 cartridges.
Cal .50 Cartridge	44.5***	This FY 1987 request supports both war reserve and training requirements with the procurement of 41,713,000 rounds.
20mm Cartridge	13.0	The requested procurement supports training requirements. The FY 1987 request is for 4,230,000 rounds.

* \$.7 Million included in items under \$2 million.
 ** \$.6 Million included in items under \$2 million.
 ***\$.1 Million included in items under \$2 million.

TYPE	\$ (Millions)	REMARKS
25mm Cartridge	74.2	The FY 1987 request includes the Target-Practice (TPT) and High-Explosive-Incendiary (HEI) rounds in support of war reserve and training requirements. The FY 1987 request is for 2,018,000 TPT cartridges in the amount of \$25.5 million and 2,813,000 25mm HEI-T cartridges in the amount of \$48.7 million. This request for procurement supports annual training requirements and to increase war reserve assets, which are significantly below established sustainability levels.
30mm Cartridge	2.4	The FY 1987 budget request is for 260,000 Target-Practice (TP) rounds in support of training requirements.
40mm Cartridge	45.4	The FY 1987 budget request is for 40mm High-Explosive Dual-Purpose (HEDP) High-Velocity ammunition and the 40mm smoke and training rounds used in the MK19 MG and M203 grenade launchers attached to the M16/M16A1 rifle. The FY 1987 request is for 5,990,000 40mm cartridges.
40mm Ammunition (4195.1 Million)		
50mm (unproved) Cartridge	108.6	This FY 1987 procurement supports training and war reserve objectives. The FY 1987 request is for 502,000 cartridges including High-Explosive, Illuminating, Smoke, and 1/10 Range Training rounds.
4.2-inch Cartridge	22.0	This FY 1987 procurement supports training and war reserve objectives for the Army's currently fielded heavy mortar. This buy of 247,000 HE rounds will provide rounds during the transition from this mortar to the Army's new mortar of 120mm.

TYPE	\$ (Millions)	REMARKS
120mm Cartridge	64.5	The 120mm system will be the new Army heavy mortar. The FY 1987 buy will support training and war reserve requirements. The FY 1987 request is for 166,000 rounds including High-Explosive with Multi-Option Fuze, Smoke, and Illumination.
Tank Ammunition (\$332.3 Million)		
105mm Tank Ammunition	69.6	The budget request includes the Armor-Piercing Fin-Stabilized Discarding Sabot-Tracer (APFSDS-T) and High Explosive Anti-Tank (HEAT) rounds to support war reserve objectives, and Discarding Sabot-Target Practice (DS-TP) cartridges for training requirements. The FY 1987 request is for 274,000 105mm DS-TP in the amount of \$41.6 million; 41,000 105mm APFSDS-T in the amount of \$20.3 million, and 19,000 105mm HEAT cartridges in the amount of \$7.7 million. Failure to fund this requirement would terminate programs designed to build war reserves of modern ammunition to support the 105mm tank fleet and would also degrade the capability to conduct tank gunnery training.
140mm Tank Ammunition	247.4	The budget request includes APFSDS-T and HEAT rounds to support war reserve objectives, and DS-TP and Target Practice Cone-Stabilized Discarding Sabot-Tracer (TPCSDS-T) rounds for training requirements. The FY 1987 request is for 62,000 120mm APFSDS-T cartridges in the amount of \$75.9 million; 35,000 120mm TP-T in the amount of \$38.8 million; 174,000 120mm TPCSDS-T in the amount of \$104.9 million; and 15,000 120mm HEAT in the amount of \$27.8 million. The requested program is required to support the fielding of the M1A1 tank with ammunition capable of defeating threat armor, and to provide tank gunnery training with the M1A1 tank.

TYPE	\$ (Millions)	REMARKS
Grenade, Smoke Screening	15.3	Electrically initiated smoke screening grenades are used by armored vehicles to obscure themselves from enemy observation. The FY 1987 request is for 241,000 grenades.
<u>Artillery Ammunition (\$478.5 Million)</u>		
155mm Chemical GB-2 Projectile	-	The FY 1987 budget request includes funding to support continued procurement of the 155mm binary chemical projectile.
155mm HE, ICM (DP)	173.0	This High Explosive (HE), Improved Conventional Munition (ICM) projectile is a dual-purpose (DP) anti-armor/anti-personnel round. Funding is required to meet war reserve sustainability objectives. The FY 1987 request is for 441,000 projectiles. The projectile, containing 88 dual-purpose submunitions, is fired over an enemy target area. At the specified time, a mechanical-time fuze initiates the expulsion charge and ejects the submunitions to descend on the target area and detonate on impact.
155mm ABAL/ADAMS	151.2	The Area Denial Artillery Munition (ADAM) and Remote Anti-Armor Mine Systems (RAAMS) projectiles are artillery delivered mines, which provide the field commander with a quick-reaction defensive or offensive mine system to oppose dismounted enemy forces or mounted armor attacks. The ADAM projectile contains 36 anti-personnel mines, while the RAAMS projectile contains nine anti-armor mines. After projectile firing, the mines are ejected over the target area. Upon reaching the ground, individual ADAM mines eject trip wires and function when disturbed. The RAAMS mines function when the presence of

TYPE	\$ (Millions)	REMARKS
155mm Copperhead	8.2	<p>an armored vehicle is detected or when distributed. Both mines incorporate a factory set self-destruct feature, which allows for movement of friendly troops through the mine area after a predetermined period. Both ADAM and RAAMS have two projectile model numbers to distinguish between available self-destruct time options. Funding is required to support war reserve objectives. The FY 1987 request is for 9,000 155 HE, ADAM M731 projectiles in the amount of \$33.9 million; 74,000 155mm HE, RAAMS M741 projectiles in the amount of \$105.4 million, and 9,000 155mm HE RAAMS M718 projectiles in the amount of \$11.9 million. If not funded, achievement of sustainability objectives will be delayed.</p> <p>The FY 1987 budget request in support of war reserve requirements is for 220 155mm Copperhead projectiles. The continued procurement of Copperhead is critical to improving the artillery's primary role, which is the delivery of timely, accurate, and lethal fire support for engaged maneuver units. Copperhead, the only precision guided projectile in production, provides the capability to destroy specific hard-point targets such as tanks, infantry fighting vehicles, and self-propelled artillery with a high probability of kill. There is no other artillery ammunition that can satisfy this requirement. This procurement in FY 1987 allows the Army to deliver its prior year procurement.</p>
155mm Smoke	13.5	<p>The 155mm smoke round provides a smoke screening capability with the 155mm howitzer. The FY 1987 procurement of 52,000 projectiles is required to support war reserve objectives and training.</p>

TYPE	\$ (Millions)	REMARKS
155mm Basebleed	31.6	This High Explosive (HE) Improved Conventional Munitions (ICM) projectile is a dual purpose (DP) anti-armor/anti-personnel round. Funding is required to meet war reserve sustainability objectives. This round differs from the basic ICM round in that it has extend range capabilities. The first year procurement of 35,000 rounds supports war reserve needs.
Cartridge, 14.5mm	1.1*	The 14.5mm round is utilized in a subcaliber trainer. The trainer provides subcaliber live-fire training for 105mm, 155mm, and 8-inch howitzers. The FY 1987 request is for 468,000 rounds.
8-Inch Rocket Assisted Projectile (RAP)	37.3	The M650 RAP is an extended range projectile primarily for use with the 8-inch self-propelled howitzer. The round can be employed with or without use of the rocket motor. For extended range the rocket motor cap is removed and the round is fired. The rocket motor ignites and boosts the round, thus extending its normal ballistic trajectory. The FY 1987 buy of 36,000 rounds at \$37.3 million supports war reserve requirements. If not funded, achievement of the sustainability objective will be delayed.
Primer, Percussion	2.0**	The M82 and MK2A4 percussion primer are used to initiate 155mm and 8-inch propelling charges that propel the artillery projectiles to their targets. The FY 1987 request is for 1,113,000 primers. The two primers are required to support different howitzer configurations. The FY 1987 programs are required to balance the number of 155mm and 8-inch projectiles that support war reserve and training requirements.

*Funding is included in the items under \$2 million line.
 **\$.2 million is included in items under \$2 million line.

<u>TYPE</u>	<u>\$ (Millions)</u>	<u>REMARKS</u>
<u>Propelling Charges (\$117.6 Million)</u>		
155mm Propelling Charges	113.6	The 155mm propelling charges are procured to balance the number of 155mm projectiles procured in support of war reserve and training requirements. The FY 1987 request is for 1,580,000 155mm propelling charges.
8-Inch Propelling Charge	4.0	The 8-inch propelling charge is procured to balance with the number of 8-inch projectiles procured in support of war reserve and training requirements. The FY 1987 request is for 22,000 propelling charges.
Hand Grenades, All Types	27.9**	The FY 1987 request includes practice, smoke, and fragmentation grenades. The FY 1987 request is for 6,311,000 hand grenades.
Signals	18.0	The FY 1987 budget request includes colored smoke signals and smoke pots for both war reserves and training.
Simulators	4.3	A number of different types of simulators is included in this request in support of training. These devices lend battlefield realism to training exercises without the associated cost, safety, and environmental impacts of live-fire training.
Rockets	132.5	This request includes funds for 189,000 Hydra 70 rockets and 136,000 Light Weight Multi-Purpose Weapon Systems plus trainers for both weapons. The Hydra 70 provides multipurpose lethality against personnel, materiel, and armored targets. The Light Weight Multi-Purpose Weapon System is a shoulder-fired, tactical rocket designed for multiple roles against materiel and lightly armored vehicles.

\$2.9 million is included in items under \$2 million line.

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<u>TYPE</u>	<u>\$ (Millions)</u>	<u>REMARKS</u>
Demolition Munitions	13.7	The FY 1987 request includes demolition charges, cratering kits, blasting caps, igniters, and blasting time fuze.
Nuclear Materiel	--	The FY 1987 budget request includes funding for support materiel and the 155mm nuclear projectile.
Fuze, Mechanical Time, Super	22.9	The mechanical time, super quick fuzes, designated as the M577/M577A1 and the M582/M582A1, are used in the 155mm and 8-Inch Improved Conventional Munition (ICM) high-explosive and rocket-assisted projectiles, as well as in the registration round for the 8-inch nuclear projectile. These fuzes are used when a choice of timed or super-quick action is required. The internal mechanism controls the detonation of the round or the expulsion of the projectile's cargo after the round is fired if the timing function is selected. If set for super-quick action, the projectile detonates upon impact. The FY 1987 request is for 398,000 fuzes. The FY 1987 and FY 1988 programs are required to correct the existing fuze to projectile imbalance and to support war reserve objectives. If this program is not funded the inventory will continue to contain projectiles for which required actuating fuzes are not available.

Mine/Casualty Mine	97.3*	The FY 1987 request includes the Modular Pack Mine System (MOPMS), and Volcano, which is a helicopter or ground dispensed mine system similar to GATOR. All are scatterable mine systems and contain both antipersonnel and antitank mines. Also included are the drill mines to support training on the GEMSS and Volcano dispensing systems. In addition, this FY 1987 request includes the
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* Included .6 million from items under 2 million.

<u>TYPE</u>	<u>\$ (Millions)</u>	<u>REMARKS</u>
		Mine Clearing Line Charge (MICLIC) system, a rocket device designed to breach paths through enemy mine fields and obstacles.
Nitroguanidine	23.2	Nitroguanidine is a colorless, crystalline compound required in production of the triple-base propellant used in extended-range propelling charges for artillery and tank ammunition. The FY 1987 request is for an economical buy of this compound.
Ammunition Components/Support	20.3	The FY 1987 budget request includes funding for components for special tests, and renovation of field stock, weapons components in support of proof and acceptance testing, and malfunction investigations.
Explosives and Propellants	35.0	The FY 1987 funding is requested to procure explosives and propellants in support of the Department's sustainability objectives. These products would be used primarily to meet mobilization requirements until production could be expanded to meet wartime requirements. In the event of a catastrophic explosives/propellants plant failure, specific items could be used until production could be resumed.
Other	14.5**	Funding for marksmanship training, spares and repair parts, and other small ammunition programs are included in the FY 1987 budget request.

** Includes \$1.4 million from items under \$2 million.

WAR RESERVE AMMUNITION, TRAINING AMMUNITION AND NON-HARDWARE PROGRAMS, FY 1987 AND FY 1988
(\$ MILLIONS)

War Reserve Ammunition:	FY 1987	FY 1988
Training Ammunition:	\$1312.9	\$1382.1
Non-Hardware Programs:	519.9	640.7
	67.3	64.6
	\$1900.1	\$2087.4

In order to support worldwide training consumption, the following ammunition is being procured to increase US Army readiness.

AMMUNITION	FY 1987		FY 1988	
	QUANTITY (THOUSANDS)	DOLLARS (MILLIONS)	QUANTITY (THOUSANDS)	DOLLARS (MILLIONS)
Cartridge, 5.56mm Ball	109,784	15.0	52,152	8.6
Cartridge, 5.56mm Blank	56,965	7.0	165,925	22.3
Cartridge, 5.56mm Blank for Squad	90,476	18.4	26,421	6.5
Automated Weapon				
Cartridge, 5.56mm Linked for Squad	31,200	9.3	37,950	13.6
Automated Weapon				
Cartridge, 5.56mm Ball M16/A2	18,845	3.41	19,953	26.5
Cartridge, 5.56mm Tracer M16A2	-	-	23,880	8.3
Cartridge, 5.56mm Tracer	20,982	5.6	14,249	4.6
Cartridge, 5.56mm Tracer Clip	1,641	.5	2,421	.9
Cartridge, 7.62mm Linked 4 Ball/Tracer	101,257	25.2	98,391	30.5
Cartridge, 7.62mm Ball Linked	10,562	2.7	14,722	4.7
Cartridge, 7.62mm Blank	-	-	280	.1
Cartridge, 7.62mm Blank Linked	72,064	15.9	41,221	11.2
Cartridge, 7.62mm Special Ball	-	-	589	.2
Cartridge, 7.62mm Ball OLF	1,667	.5	7,510	2.8
Cartridge, Caliber .22 Ball	19,286	.3	90,063	1.7
Cartridge, Caliber .22 Ball	3,484	.3	3,832	.4
Cartridge, Caliber .22 Tracer	902	.1	1,540	.1

	FY 1987		FY 1988	
	QUANTITY (THOUSANDS)	DOLLARS (MILLIONS)	QUANTITY (THOUSANDS)	DOLLARS (MILLIONS)
Cartridge, Caliber .38 Special Ball Wadcutter	1,777	.1	2,121	.2
Cartridge, Caliber .38 Special Ball	3,135	.4	2,768	.4
Cartridge, Caliber .45 Ball	5,936	.7	8,396	1.2
Cartridge, Caliber .45 Match	-	-	1,905	.3
Cartridge, 10 Gage Blank	-	-	178	.1
Cartridge, 12 Gage	-	-	98	.1
Cartridge, Caliber .50 4 Ball/Tracer	7,395	9.6	8,250	12.0
with/M19A2 Link				
Cartridge, Caliber .50 Plastic	4,665	5.4	3,000	2.8
Cartridge, Caliber .50 4 Ball/Tracer w/M9 Link	23,752	22.9	30,001	34.8
Cartridge, Caliber .50 Armor-Piercing-	3,026	4.0	3,275	5.3
to secondary-Tracer M20				
Cartridge, Caliber .50 Blank Linked f/M2	-	-	14,689	12.6
Cartridge, Caliber .50 Ball Linked	2,778	2.5	4,257	4.7
Cartridge, Caliber .50 Blank Linked f/M85	-	-	3,006	2.9
Cartridge, Caliber .50 Ball w/M15 LK	97	.1	160	.2
Cartridge, 14.5mm with/Fuze, 3 Sec Delay	170	.4	141	.4
Cartridge, 14.5mm with/Fuze, Point Detonating	298	.7	387	1.1
Cartridge, 14.5mm with/Fuze, 6 Sec Delay	-	-	16	.1
Cartridge, 20mm 4 Target-Practice Tracer	1,202	3.3	1,509	5.0
600/1 TP-17 AL-20				
Cartridge, 20mm Linked Target-Practice	3,028	9.7	2,056	7.9
Tracer M20				
Cartridge, 25mm Target Practice-Tracer	2,018	25.5	1,263	18.5
Cartridge, 30mm Target Practice	260	2.4	188	2.1
Cartridge, 40mm, High-Explosive Dual-Purpose	166	1.8	168	2.2
High Velocity				
Cartridge, 40mm, Practice Low Velocity	2,363	3.6	4,136	7.6
Cartridge, 40mm Target Practice for/MK19	541	7.5	593	8.0
Cartridge, 40mm Green Star Parachute	-	-	22	.4
Cartridge, 40mm Red Smoke Marker	15	.2	15	.2

	FY 1987		FY 1988	
AMMUNITION	QUANTITY (THOUSANDS)	DOLLARS (MILLIONS)	QUANTITY (THOUSANDS)	DOLLARS (MILLIONS)
Cartridge, 40mm Green Smoke Marker	21	.3	21	.3
Cartridge, 40mm Yellow Smoke Marker	17	.2	17	.3
Cartridge, 40mm Red Star Parachute	-	-	18	.3
Projectile, 64mm Riot Control	8	.1	-	-
Riot Control Agent	361	.1	298	.1
Charge, Propelling, 155mm Green Bag M3	306	13.4	115	6.1
Primer, M82	527	1.0	527	1.2
Primer, M82A4	48	.1	48	.1
Lightweight Multipurpose Weapon Trainer	963	2.5	961	2.4
Hydra 70 Rocket, HE/RS	-	-	15	8.4
Hydra 70 Rocket, Illuminating	-	-	8	6.2
Hydra 70 Rocket, DP5M Practice	4	2.7	23	16.6
Hydra 70 Rocket, HE/FP	152	36.8	-	-
Grenade, Hand, Smoke, HC AN-M8	398	4.2	398	-
Grenade, Hand, Inc AN-M14	-	-	3	5.2
Grenade, Hand, Green Smoke, M18	163	2.0	163	.1
Grenade, Hand, Violet Smoke	102	1.1	102	2.4
Grenade, Hand, Yellow Smoke	167	2.1	167	1.4
Grenade, Hand, Red Smoke	77	1.0	77	2.6
Grenade, Smoke Screening, Red Phosphorus	83	3.5	75	1.2
Fuze, Hand Grenade, Practice	4,232	3.6	4,559	3.8
Smoke Pot, Illuminating	17	2.4	-	4.7
Signal Illuminating, Ground, Red Star	12	.3	44	-
Signal Illuminating, Ground, White Star	56	1.4	50	1.0
Signal Illuminating, Ground, Red Star Parachute	15	.4	15	1.2
Signal Illuminating, Ground, Green Star	4	.1	33	.4
Signal Illuminating, Ground, White Star Parachute	-	-	100	.7
Signal Illuminating, Green Star Parachute M198	12	.3	-	2.2
Flare, Cartridge, Trip	58	.9	116	-
				2.2

ACQUISITION	FY 1987		FY 1988	
	QUANTITY (THOUSANDS)	DOLLARS (MILLIONS)	QUANTITY (THOUSANDS)	DOLLARS (MILLIONS)
Simulator, Projectile, Ground Burst	-	-	669	4.5
Simulator, Artillery, Gun Flash	-	-	1,380	3.9
Simulator, Hand Grenade	243	1.8	372	2.7
Simulator, Anti-Tank Guided Missile Rocket M22	-	-	1,306	7.4
Simulator, Booby Trap, Flash	85	.2	140	.4
Simulator, Booby Trap, Illuminating	-	-	45	.2
Simulator, Booby Trap, Whistling	111	.2	137	.3
Simulator, Projectile, Air Burst	143	1.8	52	.8
Simulator, Projectile, Air Burst, Liquid	16	.3	14	.3
Core, Detonating, Type 1	4,032	.3	4,032	.3
Charge, Demolition, Shaped 40 lb	7	2.2	7	2.6
Charge, Demolition, Shaped 15 lb	-	-	9	1.4
Charge, Demolition, Gratering, 40 lb	5	.9	-	-
Demolition Etc, Gratering, M180	597	1.1	597	1.3
Fuze, Proximity	-	-	42	3.7
Fuze, Mechanical, Time, Super Quick M582	191	11.2	25	1.6
Fuze, Mechanical, Time, Super Quick M577	59	3.3	59	3.6
Fuze, Blasting, Time	1,304	.1	1,304	.1
Cartridge, 105mm, Discarding Sabot-Target	274	41.6	230	42.2
Practice	-	-	-	-
Cartridge, 105mm, Target Practice-Tracer	-	-	120	17.3
Cartridge, 150mm Target Practice-Tracer	35	8.8	52	55.4
Cartridge, 150mm Target Practice Cone-Stabilized- Discarding Sabot-Tracer	174	104.9	201	123.2
Cartridge, 81mm Improved Illuminating	7	2.0	11	2.7
Cartridge, 81mm, Improved Smoke	9	2.2	13	2.9
Cartridge, 81mm, Improved 1/10 Range Training	41	2.9	27	2.4
Cartridge, 81mm, Improved High-Explosive	22	5.0	32	7.8
Cartridge, 4.2-Inch HE	106	9.4	-	-
Ground Effect Mine Scatterling System Drill Mine	15	.2	13	.2

<u>ACQUISITION</u>	<u>FY 1987</u>		<u>FY 1988</u>	
	<u>QUANTITY</u> <u>(THOUSANDS)</u>	<u>DOLLARS</u> <u>(MILLIONS)</u>	<u>QUANTITY</u> <u>(THOUSANDS)</u>	<u>DOLLARS</u> <u>(MILLIONS)</u>
Practice, Modular-Packed-Mine System	-	-	170	.3
Canister Mine, Practice	8	1.9	12	3.0
Line Charge, Inert M68	34	.3	65	.7
Rocket Motor, Mine-Clearing-Line-Change	.568	1.9	.582	2.3
TOTAL		<u>519.9</u>		<u>640.7</u>

Department of the Army Annual Budget Estimates JUSTIFICATION	Appropriation		FY 1987	
	Procurement of Ammunition, Army (Thousands of Dollars)			
	Actual		Estimate	
	Estimate		Estimate	
	FY 1985	FY 1986	FY 1987	FY 1988
Program or Budget Project Account				
Activity 2 - Ammunition Production				
Base Support				
Direct Obligation or Direct Budget Plan	301,969	\$501,500	\$353,900	\$336,600

Part 1 - PURPOSE AND SCOPE

The FY 1987 program provides for the support of plants in active production and required for mobilization; the establishment of initial-production facilities, modernization, and expansion of production capability for ammunition; modernization and Jefferson Proving Ground; and layaway of industrial plants and equipment and components for prove-out.

Part 2 - JUSTIFICATION OF FUNDS REQUESTED

	FY 85 (millions)	FY 86 (millions)	FY 87 (millions)	FY 88 (millions)
<u>Production of Industrial Facilities (PIF)</u>	282.5	280.6	159.0	300.5
Production Support and Equipment				
Replacement (PSRE)	(33.0)	(38.7)	(38.9)	(36.2)
Initial Production Facilities (IPF)	(24.7)	(166.2)	(18.6)	(37.8)
Modernization (MOP)	(67.6)	(38.5)	(50.9)	(54.7)
Expansion (EXP)	(157.2)	(37.2)	(50.6)	(171.8)
<u>Production Base Modernization</u>		103.1	161.1	
<u>Jefferson Proving Ground Modernization</u>		2.0	2.2	
<u>Layaway of Industrial Facilities</u>	19.5	20.5	22.9	19.7
<u>Prove-out of Production Facilities</u>		14.0	8.7	16.4
<u>Chemical Demilitarization Program</u>		81.3	0	0
TOTAL PRODUCTION BASE SUPPORT AMMUNITION	302.0	501.5	353.9	336.6

Provision of Industrial Facilities

(\$ Thousands)

FY 1987	FY 1988
<u>159,000</u>	<u>300,500</u>

Funds requested for Provision of Industrial Facilities in FY 1987 and FY 1988 provide industrial capabilities for manufacturing new or existing ammunition. The major efforts are divided among initial-production capability for new items entering the inventory, expansion of existing capacity to meet either peracetic or mobilization requirements, and finally modernization of existing facilities to adjust to new technology and changing ammunition requirements. The majority of funds requested are concentrated in modernization and expansion efforts. In FY 1987 and FY 1988, \$120.1 and \$264.3 million (including construction), respectively, are requested for modernization and expansion. In addition, \$38.9 million in FY 1987 and \$36.2 million in FY 1988 are requested for production support and equipment replacement at active facilities.

The FY 1987 projects requested are for the following efforts:

Chemical weapons production facilities funding is requested in the amount of \$38.6 million. Of this amount \$18.6 is for establishment of a methylphosphonic dichloride (DC) facility used in production in 155mm M687, \$4.6 million is for expansion of the 155mm metal parts facility, and \$15.4 million is for the Bigeye bomb metal parts second source.

Research and expand Research Department Explosive (RDX) and High Heat Explosive facilities funding is requested in the amount of \$30.6 million. Of this amount, \$24.7 million is to modernize "A" compositions facility, line 10 at Holston Army Plant, Kingsport, Tennessee and \$5.9 million is for a productivity improvement effort to modernize the A-5 drying process at Holston Army Ammunition Plant (AAP).

The upgrade of the 155mm stick propellant cutting and takeaway system at Radford Army Ammunition Plant (AAP), Radford, Virginia is requested for funding in the amount of \$3.1 million. The propellant requirements support the improved M203 propelling charge that uses stick propellant instead of granular propellant.

A steam tie line from powerhouse 1 to the powerhouse 2 area at Radford AAP is requested for funding in the amount of \$2.9 million. This will correct a projected steam shortfall.

Overhaul of electrical distribution system at Radford Army Ammunition Plant, Radford, Virginia is requested for funding in the amount of \$9.4 million.

Expansion of production facility for the 155mm XM864 load, assemble and pack to be located at Milan AAP, Tennessee and metal parts facility to be located at a facility to be selected are requested for funding in the amount of \$11.3 million.

The existing central laboratory at Indiana AAP, Charlestown, Indiana, will be modernized at a cost of \$2.0 million. This effort is required to correct electrical wiring violations, correct fume exhaust system, and replace obsolete/inoperative equipment.

Engineering design effort for future (outyear) projects are funded in the amount of \$16.2 million.

Also included in the FY 1987 request is funding in the amount of \$38.9 million for the necessary production support and equipment replacement for plants in active production.

It is estimated that \$31,670 thousand of associated construction effort will require authorization in the FY 1987 Military Construction Authorization Bill. These funds are requested for authorization in both the FY 1987 Military Construction and Defense Authorization Bill, but are only requested to be appropriated once in the FY 1987 Defense Appropriation Bill containing the Procurement of Ammunition, Army appropriation.

FY 1988 projects are as follows:

To provide the capability to assemble and test the XM762 Electronic Time (ET) fuze at Motorola funding in the amount of \$21.4 million is requested. This is the second generation ET fuze, which will replace the B577 fuze.

An initial production facility in support of the 155mm XM864 Base Burner Assembly will be established at a cost of \$7.2 million. The facility is required to meet planned procurement in FY 1990. The location of the facility has not been determined.

Modernization of .50 Caliber ammunition production facilities at Lake City Army Ammunition Plant is requested in the amount of \$37.4 million. Project will reduce exposure of personnel, eliminate scrap and machine downtime.

A safety enhancement project at three government installations involved in processing pyrotechnic materials (Long Star Army Ammunition Plant (AAP), Texarkana, Texas; Longhorn AAP, Marshall, Texas and Lake City AAP, Independence, Missouri) in the amount of \$12.2 million is requested. This project will eliminate the danger and injuries suffered by operating personnel due to flash fires from pyrotechnic compositions during process operations.

Funding is requested in the amount of \$8.8 million to establish the initial production facility for Sensor Fuzes Weapons. The metal parts facility will be at a commercial facility that is to be established and the lead, assemble and pack (LAP) will be at Kansas Army Ammunition Plant, Parsons, Kansas. This project is required to assure sufficient capacity exists to meet Air Force procurements.

One-half of the Single Base Facility at Radford Army Ammunition Plant, Radford, Virginia will be upgraded at a cost of \$2.4 million by incorporating deficiency corrections established during the proveout process.

Continuation of RDX/BLX program is requested in the amount of \$165.0 million. Of this amount \$12.1 million is for design of the MCMALL facility, \$2.7 million is for a productivity improvement effort for air compressors at Hutton AAP, Kingsport, Tennessee; \$146.7 million is for the first phase of the Bachmann RDX construction at Louisiana AAP, Shreveport, Louisiana.

Engineering design effort for future (outyear) projects funded at \$13.0 million and \$.4 million for items less than \$500,000 make up the balance of the modernization and expansion program.

Also included in the FY 1988 request is funding in the amount of \$36.2 million for the necessary production support and equipment replacement for plants in active production.

Production Base Modernization:

(\$ thousands)	
FY 1987	FY 1988
161,100	

To partially redress shortfalls in mobilization facilities, the following projects are requested:

A second source for production of 120mm combustible cartridge case components, at a commercial source to be determined, in the amount of \$10.6 million is requested.

Funding of \$2.9 million is requested for a TNT area support facility at Radford Army Ammunition Plant, Radford, Virginia.

To correct process and other deficiencies that preclude operation and production of Black Powder at Indiana Army Ammunition Plant, Charlestown, Indiana, \$27.0 million is requested.

To procure, install and debug two multitooled detonator loader to replace M55 detonator for mobilization responsibilities at Iowa Army Ammunition Plant, Burlington, Iowa, \$1.5 million is requested.

Equipment to complete TITF B line at Radford Army Ammunition Plant is requested for funding in the amount of \$2.0 million.

Production funds for critical mobilization projects in future years are funded in the amount of \$15.5 million.

To provide modernized line 9 facilities at Holston AAP, Kingsport, Tennessee, to manufacture Composition A5, A4 and A5, \$15.0 million is requested.

A new loading dock for explosives at Holston AAP, Kingsport, Tennessee, including barricades and relocation of building, amount is requested for funding in the amount of \$3.5 million.

To modernize and expand Composition B explosive line, at Holston AAP, to increase production from 6 million lbs/month to 7.5 million lbs per month. \$24.0 million is requested.

Funding is requested in the amount of \$58.3 million to establish initial production facilities for 155mm M109/16 with propellant propelling charges, to modify the continuous paste mechanized roll facility to produce triple base solventless stick propellant at a facility to be determined.

The gas distribution system at Louisiana AAP, Shreveport, Louisiana, which is deteriorating requires funding in the amount of 4.8 million.

It is estimated that \$29,446 million of associated construction effort will require authorization in the FY 1987 Military Construction Authorization Bill. These funds are requested for authorization in both the FY 1987 Military Construction and Defense Authorization Bill, but are only requested to be appropriated once in the FY 1987 Defense Appropriation Bill containing the Procurement of Ammunition, Army appropriation.

Layaway of Industrial Facilities

(\$ in Thousands)

FY 1987	FY 1988
<u>22,900</u>	<u>19,700</u>

The \$22.9 million requested for layaway in FY 1987 is for the protection and preservation of equipment and facilities no longer required for active production, which must be retained for future peacetime or mobilization production. In FY 1988 funds in the amount of \$19.7 million are included for a similar purpose.

Components for Prove-out

(\$ in Thousands)

FY 1987	FY 1988
<u>8,700</u>	<u>16,400</u>

This line provides funds for checking out production facilities and confirming that the facility is ready to produce at the design rate.

The FY 1987 program includes prove-out of the following:

<u>Plant</u>	<u>Title of Prove-out</u>
Commercial	Binary - DC
Commercial	Combined Effects Munitions
Commercial	Ammonia Oxidation Plant
Commercial	155mm M203E2 Combustible Cartridge Case

The FY 1988 prove-out program includes at Holston Army Ammunition Plant (AAP) Lacquer Preparation-facility, the conversion of RDX line to HMX and Composition C-4 line. Proveout of combined effects munitions at a commercial source is also included.

Jefferson Proving Ground Modernization

(\$ in Thousands)

FY 1987	FY 1988
<u>2,200</u>	<u>0</u>

This program is to modernize and upgrade existing test instrumentation required during the conduct of production acceptance testing of Army ammunition and ammunition components. This effort will replace existing obsolete, unreliable, or economically unrepairable test equipment and instrumentation currently in use. This will result in more accurate reliable data and faster turn around time for the production items being tested. This will also allow for earlier release of the product sooner, avoiding the requirement for additional storage facilities, and reduce waste and scrap by stopping faulty production sooner. This effort, to be done in independent increments, is expected to continue through FY 1991 at an estimated total cost of \$10 million.

Chemical Demilitarization Program

Beginning in FY 1987 the chemical demilitarization program was transferred to a new appropriation.

Department of the Army
Annual Budget Estimate
JUSTIFICATION

FY 1987

Appropriation
Procurement of Ammunition, Army
Budget Program or Budget Project Account
Activity 2 - Production Base Support

The authorization of associated construction effort required to support the provision of industrial facilities and production base modernization projects in the FY 1987 program is valued at \$91.1 million. The military construction effort is authorized in the Military Construction Authorization Bill, and authorized and appropriated in the Procurement of Ammunition, Army appropriation. The Congress authorized construction in the amount of \$30.1 million in FY 1985 and \$14.4 million in FY 1986 for this program. The Military Construction Project Data (DD Form 1391), that provide detailed project information, is published under separate cover. A listing of FY 1987 construction projects is provided in two separate tables. The first table depicts the provision of industrial projects totaling \$31.7 million; the second table shows the production base modernization projects valued at \$59.4 million. The data is as follows:

			FY 1987 Provision of Industrial Facilities (Dollars in Millions)		
Army Ammunition Plant (AAP)	Project No.	Project Title	Construction	Equipment	Total
			PS&ER*	MOD/EXP**	
Holloman AAP	5875308-54	Turbine Generator for Building B-6	.330		.330
	5875309	Modernize A-5 Drying Process		2.900	5.900
	58753000	Modernize "A" Composition Facilities, Line 10		19.700	24.700
Holloman AAP	5875310-8	Modernize Testing Labs		.800	2.100
	5875330-15	Access Roads to Shiphouses	.260		.260
Furness AAP	5875309-14	Upgrade Coal Handling System	.640		.640
	5875309-16	Emergency Lighting and Power for 300 Line	.410	-	.410
Edgewood City AAP	5875332-23	Construct 2 Water Wells	.370		.370
Hillman AAP	5875317-16	Ammunition Storage Magazines	.610		.610

* Production Support & Equipment Replacement
** Modernization/Expansion

Army Ammunition Plants (AAP)	Project No.	Project Title	FY 1987 Provision of Industrial Facilities (Dollars in Millions)			
			Construction PS&ER*	MOD/EXP**	Equipment	Total
Radford AAP	5875326-13	Replace Explosion Protection Barricade	1.100			1.100
	5872225	Electric Power Center Upgrade		9.200	.200	9.400
	5872307	155mm Stick Process Upgrade		.750	2.350	3.100
	5872134	Steam Supply Line to Horseshoe Area		8.700	.230	8.930
	TOTAL		3.720	27.950	26.180	57.850
	TOTAL PIF CONSTRUCTION		31.670 Million			

* Production Support & Equipment Replacement
 ** Modernization/Expansion

The authorization of associated construction effort required to support the ammunition production base modernization program is \$59.5 million. The military construction effort is authorized in the Military Construction Authorization Bill and authorized and appropriated in the Procurement of Ammunition, Army appropriation.

FY 1987 PRODUCTION BASE MODERNIZATION (Dollars in Millions)				
ARMY AMMUNITION PLANT	PROJECT NO.	PROJECT TITLE	CONSTRUCTION	EQUIPMENT TOTAL
Holston AAP	5873000B	Modify Composition A, Line 9	3.500	11.500 15.000
	5872055	Explosive Loading Docks	3.220	.280 3.500
	5872688	Composition B, Line 2 Modification	10.500	13.500 24.000
Louisiana AAP	5872360	Gas Distribution System	.786	.786
Radford AAP	5872293	TNT Area Support Facilities	2.440	.150 2.590
X-Factory	5870112	155mm XM215/216 Stick	39.000	19.300 58.300
TOTAL			59.446	44.730 104.176

PROCUREMENT OF AMMUNITION, ARMY

Section 3

Comparison of Program Requirements and Financing

Comparison of FY 1986 program requirements as reflected in FY 1986 budget with FY 1986 program requirements as shown in FY 1987 budget.

Comparison of FY 1986 financing as reflected in FY 1986 budget with FY 1986 financing as shown in FY 1987 budget.

Comparison of FY 1985 program requirements as reflected in FY 1986 budget with FY 1985 program requirements as shown in FY 1987 budget.

Comparison of FY 1985 financing as reflected in FY 1986 budget with FY 1985 financing as shown in FY 1987 budget.

COMPARISON OF FY 1986 PROGRAM REQUIREMENTS
AS REFLECTED IN FY 1986 BUDGET WITH
FY 1986 PROGRAM REQUIREMENTS AS SHOWN IN FY 1987 BUDGET

SUMMARY OF REQUIREMENTS (In Thousands of Dollars)			
Appropriation:	Program Requirements In FY 1986 Budget	Program Requirements In FY 1987 Budget	Increase (+) or Decrease (-)
Procurement of Ammunition, Army			
Activity 1 - Ammunition	2,260,600	1,995,700	-270,900
Activity 2 - Ammunition Production Base Support	<u>368,400</u>	<u>501,500</u>	<u>+133,100</u>
	2,629,000	2,497,200	-137,800

EXPLANATION BY ACTIVITY

Activity 1 - Ammunition. The \$270,900 thousand decrease is the net result of Congressional action in the FY 1986 Appropriation.

Activity 2 - Ammunition Production Base Support. The \$133,100 thousand increase is the net result of Congressional action on the FY 1986 Appropriation.

COMPARISON OF FY 1986 FINANCING AS REFLECTED
IN THE FY 1986 BUDGET WITH FY 1986 FINANCING
AS SHOWN IN FY 1987 BUDGET

Appropriation:	(In Thousands of Dollars)		
	Financing In FY 1986 Budget	Financing In FY 1987 Budget	Increase (+) or Decrease (-)
Procurement of Ammunition, Army			
Program Requirements, (Total)	2,774,600	2,664,000	-110,600
Program Requirements (Service Account)	(2,635,000)	(2,497,200)	(-137,800)
Program Requirements (Reimbursable)	(139,600)	(166,800)	(+27,200)
Less:			
Anticipated Reimbursements	139,600	166,800	+27,200
Reprogramming from prior year budget plans	-0-	-0-	-0-
Unobligated balance available from prior year to finance new budget plans	-0-	-0-	-0-
Unobligated balance transferred from other accounts	-0-	-0-	-0-
Add: Unobligated balance transferred to other accounts	-0-	-0-	-0-
Unobligated balance available to finance subsequent year budget plans	-0-	-0-	-0-
BUDGET AUTHORITY	2,635,000	2,497,200	+27,200

BUDGET AUTHORITY

Appropriation	2,635,000	2,497,200	+27,200
Appropriation (Adjusted)	2,635,000	2,497,200	+27,200

EXPLANATION OF CHANGES IN FINANCING

The total program for fiscal year 1986 has decreased by \$110,600 thousand since the FY 1986 budget request was presented to the Congress. This decrease is attributed to the following:

Anticipated reimbursements: Estimates of sales of ammunition to customers, including foreign countries, are increased by \$27,200 thousand to reflect current program execution plans.

Budget Authority: The decrease of \$137,800 thousand is the result of Congressional action on the FY 1986 Appropriation.

COMPARISON OF FY 1985, PROGRAM REQUIREMENTS
AS REFLECTED IN FY 1986 BUDGET WITH
FY 1985 PROGRAM REQUIREMENTS AS SHOWN IN FY 1987 BUDGET

Appropriation:	SUMMARY OF REQUIREMENTS (In Thousands of Dollars)		
	Total Program Requirements	Program Requirements In FY 1987 Budget	Increase (+) or Decrease (-)
Procurement of Ammunition, Army	In FY 1986 Budget		
Activity 1 - Ammunition	2,365,700	2,196,600	-169,100
Activity 2 - Ammunition Production	280,600	302,000	+21,400
Base Support			
Total	2,646,300	2,498,600	-147,700

Explanation by Activity

Activity 1 - Ammunition. The \$169,100 thousand decrease is the net result of an anticipated reprogramming to Activity 2 (+\$21,400 thousand) and a transfer forward from Activity 1 to another account (-\$147,700 thousand).

Activity 2 - Ammunition Production Base Support. The \$21,400 thousand increase is the result of an anticipated reprogramming from Activity 1 (-\$21,400 thousand).

COMPARISON OF FY 1985 FINANCING AS REFLECTED
IN THE FY 1986 BUDGET WITH FY 1985 FINANCING
AS SHOWN IN FY 1987 BUDGET

Appropriation:	(In Thousands of Dollars)		
	Financing In FY 1986 Budget	Financing In FY 1987 Budget	Increase (+) or Decrease (-)
Procurement of Ammunition, Army			
Program Requirements, (Total)	2,772,000	2,578,667	-193,333
Program Requirements (Service Account)	(2,646,300)	(2,500,313)	(-145,987)
Program Requirements (Reimbursable)	(125,900)	(78,354)	(-47,546)
Less:			
Anticipated Reimbursements	125,900	78,354	-47,546
Reprogramming from prior year budget plans	-0-	-0-	-0-
Unobligated balance available from prior year to finance new budget plans	-0-	-0-	-0-
Unobligated balance transferred from other accounts	-0-	-0-	-0-
ADD: Unobligated balance transferred to other accounts	-0-	147,700	-0-
Unobligated balance available to finance subsequent year budget plans	-0-	-0-	-0-
BUDGET AUTHORITY	2,646,300	2,646,300	-47,546

BUDGET AUTHORITY

Appropriation	2,646,300	2,646,300	-0-
Transferred to other accounts	-0-	-147,700	-45,546
Appropriation (Adjusted)	2,646,300	2,498,600	-45,546

EXPLANATION OF CHANGES IN FINANCING

The total fiscal year 1985 program has decreased by \$193,333 thousand since the FY 1986 budget request was presented to the Congress. This increase is due to the following:

Anticipated Reimbursements: The \$47,546 thousand decrease reflects actual sales of ammunition to foreign countries and other customers.

Budget Authority: The decrease of \$147,700 thousand is the result of a Congressional decision to transfer this amount to another account.

PROCUREMENT OF AMMUNITION, ARMY

Section 4

Selected Data Sheets

4-40 February 1986

PROCUREMENT OF AMMUNITION, ARMY
PRODUCTION BASE SUPPORT
(\$ in Millions)

<u>Service: Army</u>	<u>FY85</u>	<u>FY86</u>	<u>FY87</u>	<u>FY88</u>
<u>P-1 Line Item: Provision of Industrial Facilities</u>				
<u>Projects:</u>				
<u>Annual Support</u>				
58X5000 - Jefferson Proving Ground: Production Support and Equipment Replacement (PS&ER)	.5	1.4	2.0	1.2
58X5314 - Louisiana Army Ammunition Plant (AAP): - Spt - PS&ER	1.0	1.8	2.3	2.6
58X5316 - Lone Star AAP: Spt - PS&ER	3.2	3.0	2.7	2.4
58X5317 - Hillman AAP: Spt - PS&ER	1.5	2.6	2.4	2.4
58X5320 - Radford AAP: Spt - PS&ER	5.9	6.2	4.4	3.9
58X5327 - Longhorn AAP: Spt - PS&ER	2.5	2.3	2.3	2.8
58X5328 - Holston AAP: Spt - PS&ER	2.5	2.9	2.4	2.9
58X5329 - Kansas AAP: Spt - PS&ER	2.0	2.5	2.7	2.2
58X5330 - Indiana AAP: Spt - PS&ER	3.3	3.8	3.3	2.8
58X5332 - Lake City AAP: Spt - PS&ER	2.2	3.2	2.2	2.6
58X5333 - Iowa AAP: Spt - PS&ER	3.1	2.9	2.7	2.5
58X5342 - Buranton AAP: Spt - PS&ER	2.6	1.5	1.9	.9
58X5002 - All Plants: Omnibus Project for Purchase of Self-Amortizing Equipment	.9	1.0	1.2	1.0
58X5711 - Environmental Restoration Projects under \$500,000 each	.5 <u>1.3</u>	1.0 <u>2.6</u>	3.9 <u>2.5</u>	2.9 <u>3.1</u>
<u>Subtotal Production Support & Equipment Replacement</u>	33.0	38.7	38.9	36.2

PROCUREMENT OF AMMUNITION, ARMY
PRODUCTION BASE SUPPORT
(\$ in Millions)

	<u>FY85</u>	<u>FY86</u>	<u>FY87</u>	<u>FY88</u>
<u>Projects</u>				
<u>Initial Production Facilities (IPF)</u>				
5850064 - Pine Bluff Arsenal: IPF - XM819 Red Phosphorous Mortar	3.1			
5850070 - Commercial: IPF - Nitramine Gun Propellant	3.0			
5850081 - X-Facility: IPF - Plastic Bonded Explosive (PBX)	13.2			
5850117 - Longhorn AAP: IPF - Musall Facility Research Department Explosive and High Melt Explosive (RDX and HMX)	4.0	20.0		
5850195 - Lake City AAP: IPF - 5.56mm Bandoleer IIB Pack Equipment	1.4	28.3		
5860063 - Pine Bluff Arsenal: IPF - Bigeye Bomb Load, Assemble & Pack (LAP)				
5860074 - Commercial: IPF - Bigeye Bomb Metal Parts		17.6		
5860079 - X-Facility: IPF - O-(2-diisopropylaminomethyl) O'-ethylmethylphosphonite (QL)		48.0		
5860127 - Commercial: IPF - Production Facility for Bigeye Bomb				
5860140 - Commercial: IPF - 105mm XM900 MPTS and Core		32.0		
5860140 - Radford AAP - Improved Nitrocellulose Purification Facility		2.5		
5862208 - Lake City AAP: IPF - 5.56mm Squad Automatic Weapon System (SAWS) Ball Lines 4, 5 Conversion		3.8		
5870103 - Commercial: IPF - Binary - Methylphosphonic dichloride (DC)		18.6		
5870115 - Multiple Sites: 155mm XM864 LAP and Metal Parts		13.6		
5880115 - X-Facility - 155mm XM864 Base Burner Assembly				7.2
5880067 - Commercial: IPF - XM762/767 ET Artillery Fuze				21.4
5880110 - Finest AAP: Commercial: IPF - Sensor Fuzed Weapon Fuze				8.8
Projects under \$500,000 each		.4		.4
<u>Subtotal, Initial Production Facilities (IPF)</u>	<u>24.7</u>	<u>166.2</u>	<u>18.6</u>	<u>37.8</u>

PROCUREMENT OF AMMUNITION, ARMY
PRODUCTION BASE SUPPORT
(\$ in Millions)

Projects

Expansion (EXP)

XXXXXXX - X-Facility: EXP - Classified Program				
5850050 - Commercial: EXP - Tactical Munitions				
Dispenser Metal Parts				
5852386 - Kansas AAP: EXP - Combined Effects Munitions Load				
Assemble & Pack				
5852591 - Iowa AAP: EXP - Mine - FASCAM - Gator -				
Load, Assemble and Pack (LAP)				
5852427 - Louisiana AAP: Research Department Explosive (RDX)				
Design				
5852530 - X-Facility: RDX Design				
5853199 - Commercial: EXP - Mortar - 81mm Increment Container				
5853199 - Commercial: EXP - FASCAM - Remote Anti-Armor Mine				
Metal Parts				
5853259 - X-Facility: 155mm M203E2 Combustible Cartridge Case				
5870115 - Multiple: EXP - 155mm XM864 Metal Parts and LAP				
5862195 - Lake City AAP: EXP - 5.56mm Bandoleer M8 Pack Equipment				
5863257 - Commercial: EXP - Bomb - Combined Effects Munitions				
CELL/BLD 9/E Metal Parts				
5833086 - Orbital Engineering Design				
5872591 - Radford AAP: EXP - 155mm Solvent Stick Propellant Manufacture				
5873271 - X-Facility: EXP - 155mm M687 Projectile Metal parts				
(LPTG)				
5870074 - Commercial: EXP - Bigeye Bomb Metal Parts				
5872423 - Louisiana AAP: EXP - Bachmann RDX Construction (Part I)				
5862430 - X-Facility: (MUSAF) Design, Phase I Research Department				
Explosive/High Melt Explosive (RDX/UNX)				
Projects Under \$900,000 Each				
Subtotal Expansion:				
	<u>FY85</u>	<u>FY86</u>	<u>FY87</u>	<u>FY88</u>
	64.4			
	17.1			
	10.0			
	3.7			
	2.0			
	30.0			
	2.4			
	.2			
	3.2			
		2.2	11.3	
		16.7	16.2	13.0
	23.7	17.7	3.1	
			4.6	
			15.4	
				146.7
				12.1
	<u>.5</u>	<u>.6</u>	<u>50.6</u>	<u>171.8</u>
	157.2	37.2		

PROCUREMENT OF AMMUNITION, ARMY
PRODUCTION BASE SUPPORT
(\$ in Millions)

<u>Projects</u>	<u>FY85</u>	<u>FY86</u>	<u>FY87</u>	<u>FY88</u>
<u>Modernization (MOD)</u>				
5850086 - Lake City AAP: MOD - 5.56mm Tracer Charging Equipment	2.3			
5852054 - Holston AAP: MOD - Improve Composition C-4 Line (RDX and HMX)	12.0			
5852159 - Indiana AAP: MOD - Propelling Charge Qualification Building (155mm/8-Inch Propelling Charges)	2.2			
5852199 - Holston AAP: MOD - Coal Handling Equipment (RDX and HMX)	9.0			
5852232 - Lake City AAP: MOD - 5.56mm Blank Squad Automation Weapon System (SAWS) Conversion	1.3			
5852359 - Cranston AAP: MOD - Water-Distribution Replacement System	2.1			
5852371 - Indiana AAP: MOD - 155mm/8-Inch Propelling Charge	1.1			
5852507 - Louisiana AAP: MOD - Support Chemical Laboratory	1.9			
5852517 - Radford AAP: MOD - Nitroglycerin, Line 1	25.8			
5853230 - X - Facility: MOD - 16-inch Projectile Metal Parts/Load, Assemble and Pack (LAP)	2.5			
5853233 - Commercial: MOD - XM763/XM764 Fuze Production Equipment	1.8			
5853460 - Jefferson Proving Ground: MOD - Jefferson Test Capability	1.8			
5852407 - Lake City AAP - 5.56mm Small Caliber Multiproduct Handling System		7.3		
5852439 - Holston AAP: MOD - Productivity Improvements (RDX and HMX)	3.0	4.1	5.9	2.7
5862447 - Holston AAP: MOD Conversion Research Department Explosive to High Melt Explosive (HMX to HMX)		26.6		
5872134 - Radford AAP: Steam Tie Line Horseshoe Area			8.9	
5872158 - Indiana AAP: MOD - Bldg - Central Laboratory			2.0	
5872225 - Radford AAP: MOD - Upgrade Powerhouse Electrical Distribution System			9.4	

PROCUREMENT OF AMMUNITION, ARMY
PRODUCTION BASE SUPPORT

(\$ in Millions)

Projects

Modernization (MOD), Continued

	<u>FY85</u>	<u>FY86</u>	<u>FY87</u>	<u>FY88</u>
5873000 - Holston AAP: Modernization "A" Composition Facility, Line 10				
5882218 - Radford AAP: MOD - Continuous Automated Single Base Line			24.7	2.4
Deficiencies Correction				
5882233 - Lake City AAP: MOD - .50 Caliber Ammunition Production Facility				37.4
(Phase II)				
5882245 - Multiple Sites: MOD - Pyrotechnic Safety Enhancements				12.2
Projects under \$900,000 each	<u>.8</u>	<u>.5</u>	<u>50.9</u>	<u>54.7</u>
Subtotal Modernization	67.6	38.5		

TOTAL - PROVISION OF INDUSTRIAL FACILITIES

	282.5	280.6	159.0	300.5
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FY85

P-1 Line Item: Production Base Modernization:

Projects:

5860086	- Lake City AAP: EXP - 5.56mm Tracer Charging Second Unit
5862232	- Lake City AAP: EXP - 5.56mm Blank - Second Unit
5862523	- Lone Star AAP: MOD - FASCAM Melt Pour Equipment
5863281	- Commercial: MOD - Fuze Production Equipment
5862519	- Radford AAP: MOD - Primary Overhead Electrical Distr System
5863525	- Radford AAP: MOD - Powerhouse
5862145	- Lone Star AAP: MOD - Mortar Test Assembly
5863534	- Commercial: MOD - Chucker & Bar Machine Plant Equipment Package (PEP) 0762
5863542	- Commercial: MOD - 20/50 Brass Cups PEP-591
5863544	- Commercial: MOD - 155mm MPTS PEP-422
5863046	- Multiple: EXP - Omnibus Design
5860147	- Commercial - 20mm PGU-28B Raufoss Cartridge
5862512	- Louisiana AAP: 155mm MPTS on Y Lines
5862340	- Badger AAP - Oleum Sulfuric Acid Operational Deficiencies
5873000	- Holston AAP - EXP - Modify Composition A, Line 9
5872055	- Holston AAP - MOD - Explosive Loading Docks
5872688	- Holston AAP - MOD - Composition B, Line 2
5870112	- X- Facility - IPF - 155mm XM215/216 Stick Propellant
5872088	- Indiana AAP - Black Powder
5872293	- Radford AAP - MOD: TNT Area Support Facility
5872301	- Lone AAP - MOD: M55 Detonator Loader Replacement
5872487	- Radford AAP - MOD: TNT Line B Voids Correction
5873046	- Multiple - Omnibus Design in Support of Mobilization
5873512	- Commercial - EXP: 120mm Combustible Cartridge Case Second Source
	Items less than \$900,000

Sub-Total.

103.1	\$161.1
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February 1986

PROCUREMENT OF AMMUNITION, ARMY
PRODUCTION BASE SUPPORT
(\$ in Millions)

<u>Projects</u>	<u>FY85</u>	<u>FY86</u>	<u>FY87</u>	<u>FY88</u>
<u>P-1 Line Item: Layaway of Industrial Facilities</u>				
<u>Projects</u>				
5884940 - Armament Munitions and Chemical Command (AMCCOM) Layaway and/or Redistribution of Government-Owned Equipment in Government-Owned Plants	17.1	15.9	18.9	16.7
5884980 - Armament Munitions and Chemical Command (AMCCOM) Layaway and/or Redistribution of Government-Owned Equipment	1.8	3.9	4.0	3.0
5885260 - Jefferson Proving Ground: Layaway Test Facility	.6	.7		
<u>Subtotal Layaway of Industrial Facilities</u>	<u>19.5</u>	<u>20.5</u>	<u>22.9</u>	<u>19.7</u>
<u>P-1 Line Item: Components for Prove-out</u>		14.0	8.7	16.4
<u>P-1 Line Item: Jefferson Proving Ground Modernization</u>		2.0	2.2	0
5885160 - Jefferson Proving Ground Test Facility		<u>81.3</u>	<u>0</u>	<u>0</u>
<u>P-1 Line Item: Chemical Demilitarization</u>				
<u>Total Ammunition Production Base Support</u>	302.0	501.5	353.9	336.6

END

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